FIG. 1

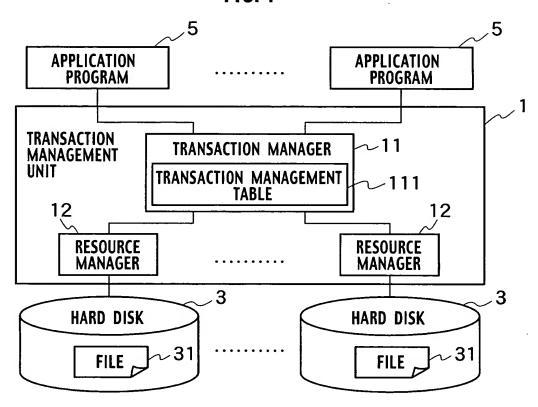


FIG. 2

```
<?xml version="1.0"?>
<flowers>
 <flower>
   <name>Tulip</name>
   <color>Yellow</color>
   <price>150</price>
 </flower>
  <flower>
   <name>Rose</name>
   <color>Red</color>
   <price>500</price>
 </flower>
  <flower>
   <name>Lilac</name>
   <color>White</color>
   <price>300</price>
  </flower>
</flowers>
```

FIG. 3

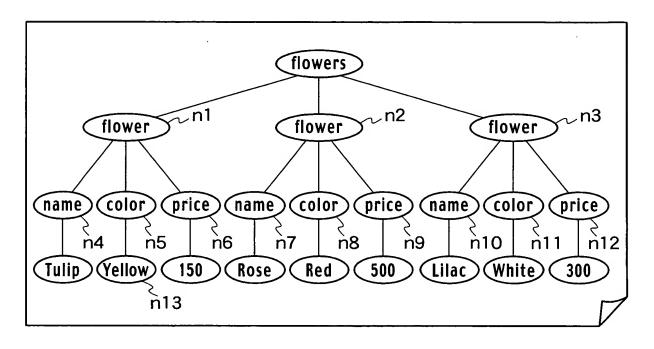
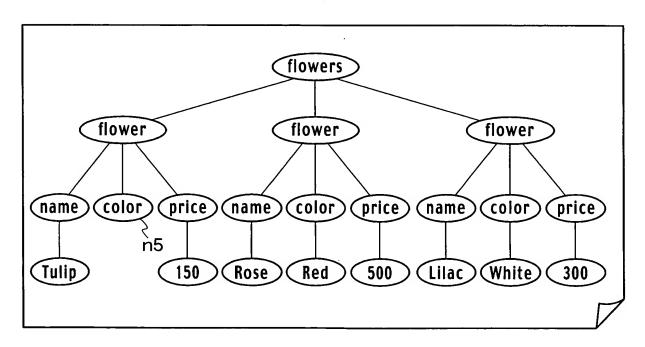


FIG. 4



**FIG. 5** 

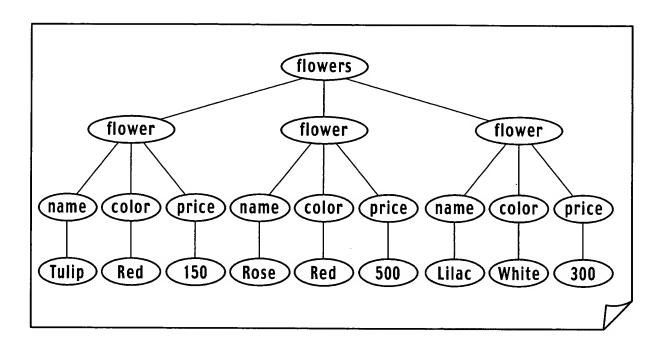
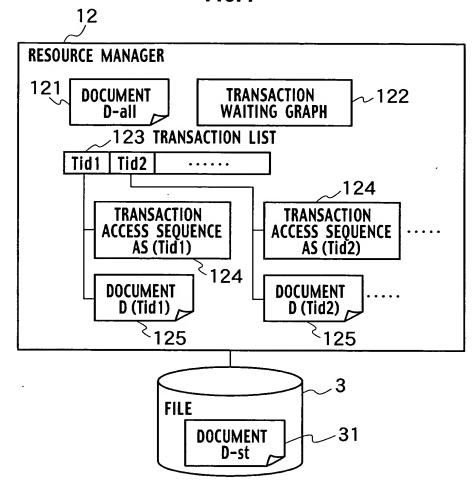


FIG. 6

TRANSACTION	RESOURCE MANAGER
<b>T1</b>	R1
Т2	R2
Т3	R1, R2
<b>T4</b>	R2
<b>T</b> 5	R1

**FIG.** 7



**FIG. 8** 

T1	T3	<b>T5</b>

FIG. 9

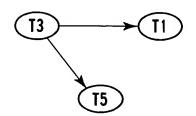


FIG. 10

ACCESS NUMBER	READ OR WRITE	ACCESS OPERATION
1	r	READ ("flower/name")
2	r	READ ("flower [name=Tulip] /color")
3	w	REPLACE (node2, "Red")

FIG. 11

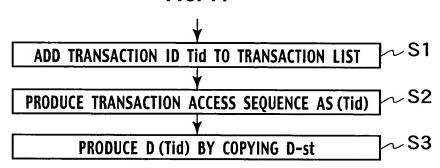
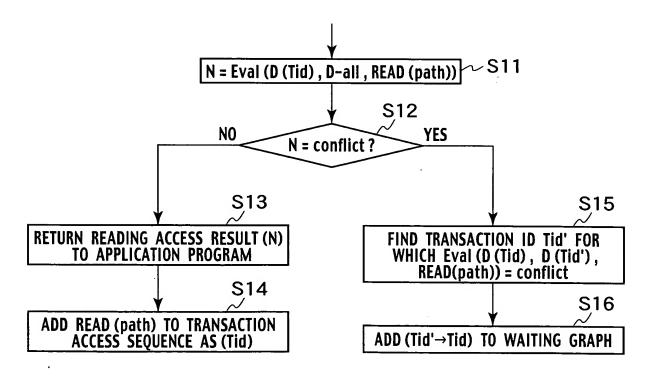


FIG. 12



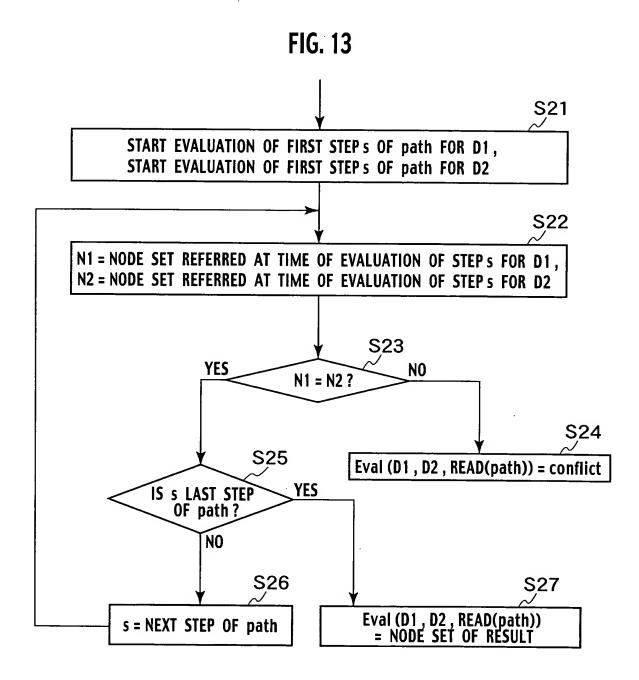
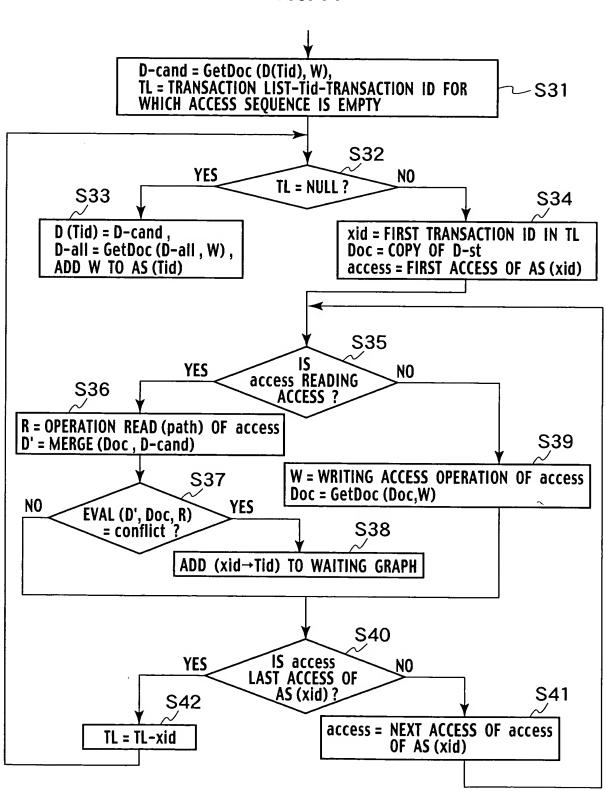


FIG. 14



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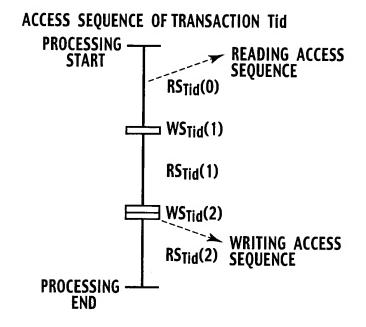


FIG. 16

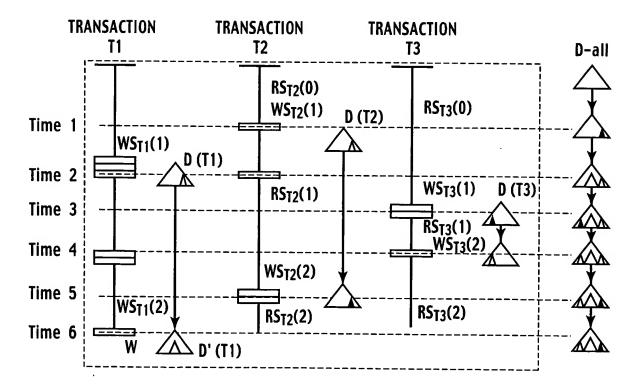
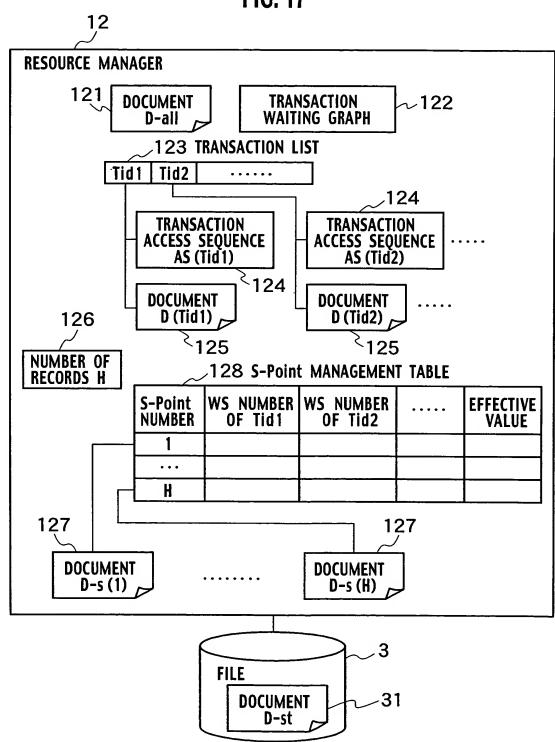


FIG. 17



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FIG. 18

	NUMBER OF WRITING ACCESSES	
RS(0)		READING ACCESS OPERATION #1 READING ACCESS OPERATION #2
WS(1)	1	WRITING ACCESS OPERATION
RS(1)		READING ACCESS OPERATION #1 READING ACCESS OPERATION #2
WS(2)	2	WRITING ACCESS OPERATION #1 WRITING ACCESS OPERATION #2
RS(2)		READING ACCESS OPERATION #1 READING ACCESS OPERATION #2

FIG. 19

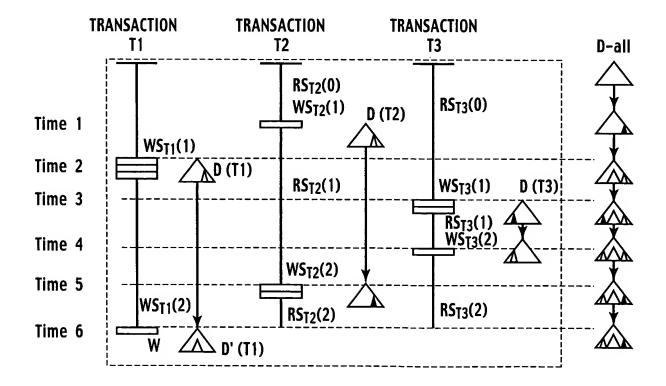
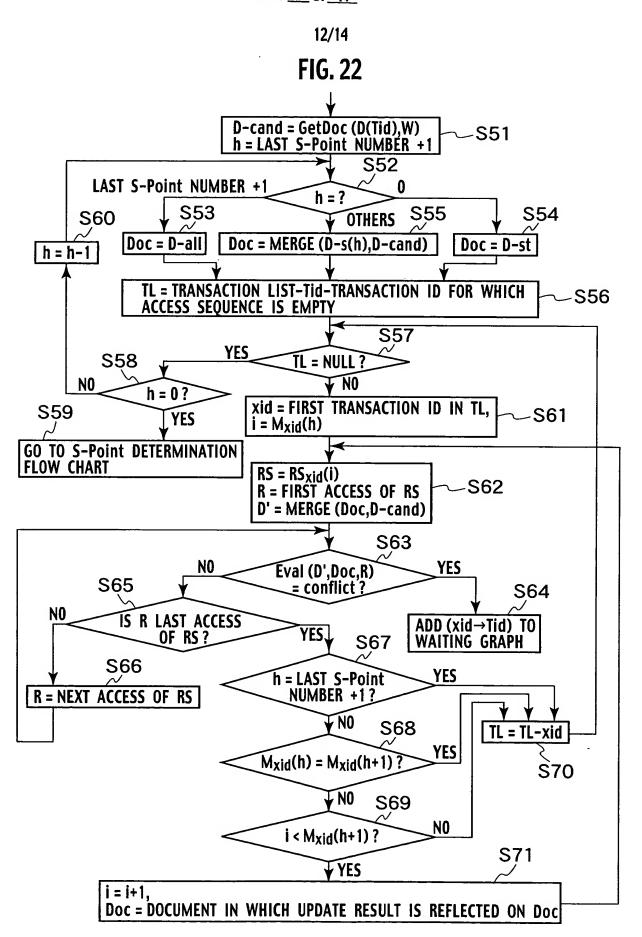


FIG. 20

S-point NUMBER	WS	NUMBE	R EFFECTIVE VALUE		
NUMBER	T1	T2			
1	0	1	0	1	
2	1	1	0	3	

FIG. 21

	S-Point	WS	NUMBE	R	EFFECTIVE VALUE		
L	NUMBER	T1	T2	T3	EFFECTIVE VALUE		
	1	1	1	0	4		



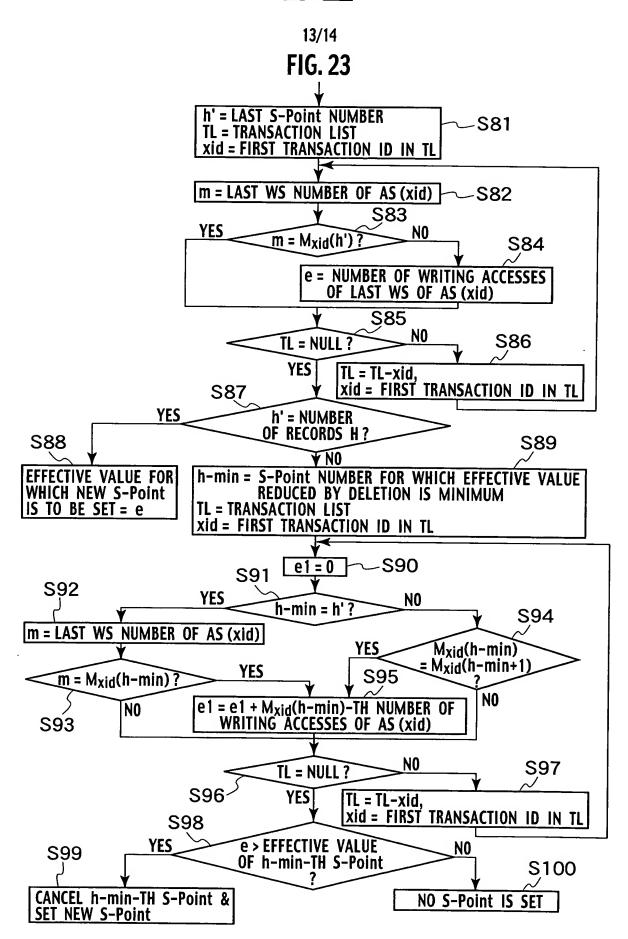


FIG. 24

(a) AT Time 2

S-Point	W	S NUMBE	R	FFFEETIVE VALUE
NUMBER	T1	T2	T3	EFFECTIVE VALUE
1	0	. 1	0	1
2	1	1	0	3 .

(b)

AT Time 3

S-Point	W:	S NUMBE	R	FFFFCTIVE MALLIE
NUMBER	T1	T2	T3	EFFECTIVE VALUE
+	<del>-0</del> -	+	-0-	+
1	1	1	0	4
2	1	1	1	2

(c)

AT Time 4

S-Point	nt WS NUMBER		FEFFCTIVE VALUE		
NUMBER	T1	T2	T3	EFFECTIVE VALUE	
+	1	1	-0-	-4-	
1	1	1	1	6	
2	1	1	2	1	

(d)

AT Time 5

S-Point	W:	NUMBE	R	FFFF CTIVE VALUE	
NUMBER	T1	T2	T3	EFFECTIVE VALUE	
1	1	1	1	6	
2	+	-1-	-2-	+	
2	1	2	2	3	